2200 Churchill Road, Springfield, Illinois 62706 217/525-3334

8212-1A IL-160-07

APPLICATION FOR PERMIT TO DEVELOP AND/OR OPERATE A SOLID WASTE MANAGEMENT SITE

In Accordance With The Environmental Protection Act

All information submitted as part of the Application is available to the public except when specifically designated by the Applicant to be treated confidentially as regarding a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act.

APPLICATION MUST BE SUBMITTED IN DUPLICATE

DO NOT WRITE IN THIS SPACE - FOR E.P.A. USE ONLY

_____ COUNTY - Land Pollution Control

_____ / _____ Region _____

Application Received: _____ Pre-operation Insp. _____

Reviewed by: Geol. ( ) Eng. ( ) Other ( ) By: _____

Preliminary Site Review: _____ Operating Permit: Granted _____

Application Filed: _____ _____ Denied _____

_____ _____ _____

Comprehensive Review Initiated: _____ _____

Development Permit: _____

Granted _____ Denied _____ _____

_____ _____ _____ Permit No. _____

PART I - APPLICANT INFORMATION

A. SITE IDENTIFICATION

1. Name of Applicant JACOB JOHNSON
(Person responsible for operation)

2. Address of Applicant 113 West Adams
(Street, P. O. Box, or R. R. #)

Pittsfield (City) Illinois (State) 62363 (Zip Code)

Telephone: 217-285-4324
(Area Code) (Number)

3. Name of Land Owner JACOB JOHNSON
(If same as above, so indicate)

4. Address of Land Owner 113 West Adams Street
(Street, P. O. Box, or R. R. #)

Pittsfield (City) Illinois (State) 62363 (Zip Code)

5. Name of Site W. W. Sanitation Sanitary Landfill

6. Address of Site R. R.
(Street, P. O. Box, or R. R. #)

New Salem (City) Illinois (State) 62357 (Zip Code)

Pike County New Salem Township

7. Land ownership (Check Applicable Boxes)

(XX) Presently Owned by Applicant ( ) To Be Leased by Applicant For _____ Years
( ) To Be Purchased by Applicant ( ) _____ Years of Lease Remaining: termination date of lease _____

Operated by: Ill. Corporation ( ) Parternership ( ) Government ( )
Individual (X) Other ( )

B. SITE BACKGROUND (Check Applicable Box or Boxes)

8. ( ) This is an existing operation begun August (mo.) 1969 (yr.).
( ) This is a proposed operation.
( ) This is a proposed extension of an existing adjacent operation:
Illinois E.P.A. Permit No. _____: No Illinois E.P.A. Permit ( ).

PART II - LOCATION INFORMATION

A. ZONING AND LOCAL REQUIREMENTS

9. Present zoning classification of site Rural Area, Not Zoned.

10. Does present zoning of site allow the proposed usage? (X)Yes ( )No.

11. Restrictions (if any) None

12. Check applicable boxes which describe the use of adjacent properties surrounding site.

	Residential	Commercial	Industrial	Agricultural	Others*
a. North	(X)**	( )	( )	( )	( )
b. East	( )	( )	( )	( )	( )
c. South	( )	( )	( )	( )	( )
d. West	( )	( )	( )	( )	( )

*SPECIFY USE CLASSIFICATION Natural woods and vegetation

** Single-Dwelling

13. a. Are there any permits, operational requirements, licenses, or other requirements or restrictions by any municipality, planning commission, county, county health department, state agency, or other governing body?
( ) Yes (X) No If yes, list below._____

N/A b. Have these requirements, licenses or restrictions been approved by the agency or governing body having jurisdiction? ( )Yes ( )No

c. If the answer to (b) is yes, include photocopies of supporting documents.

B. LOCATION

14. Attach a copy of the United States Geologic Survey (U.S.G.S.) topographic quadrangle map of the area which contains the site. (7.5 minute quadrangle, if published).

Quadrangle Map Provided: Pittsfield Quadrangle (Name) 1926 (Date)

15. a. Outline on the U.S.G.S. topographic quadrangle map the location and extent of the site.

b. Provide a legal description of the site. (Typewritten on attached sheet.)
See Attached Sheet
20 acres in _____ Quarter, SW Quarter, SW Quarter
of Section 11, Township 4S, Range 4W.

c. Provide State Plane coordinates of the southwest corner of the site, using the State Plane Coordinate System:

310,996 feet east, 1,112,893 feet north or origin, ( ) east zone (X) west zone

16. General characteristic: (Flood Plain, Hillside, Field, Strip Mine, Quarry, Gully, Gravel Pit, Swamp, etc.)
Briefly describe: Generally flat area sloping gradually to the north, from thence, steeply sloping into a small drainageway, eg: rolling terrain

17. Plot the following information on the U.S.G.S. quadrangle topographic map, if within the site or adjacent to the outer perimeter of facility:

a. Wells (domestic, industrial, etc.)
b. Public water sources (wells, stream, etc.)
c. Residences or residential areas, commercial facilities, sewage treatment facilities, industries, institutions, etc.
d. Other pertinent facilities not shown on topographic map such as diverted streams, strip mines, ponds, etc.

If scale of quadrangle map is not sufficient, show the above items on a separate topographic map (See Part IV - A - 23).

PART III - SITE CHARACTERISTICS

A. GEOLOGY - HYDROLOGY

NOTE: The instructions for this Part of the Application should be read carefully prior to initiating the data-gathering program for the site.

Provide subsurface information in comprehensive detail, sufficient to allow thorough evaluation of the hydrologic and geologic conditions beneath and surrounding the site. This data must fully describe the hydrogeologic interrelationships of the landfill facility, local ground waters, and surface waters. All information requested in sections 18 through 22 should be integrated and presented as a detailed hydrogeologic report.

B. GEOLOGY

GENERAL GEOLOGIC SETTING

18. Provide a brief description of the general geography of the region in which the site is located, and a summary of the hydrogeologic conditions typical of that portion of Illinois.

TYPE AND EXTENT OF SUBSURFACE MATERIALS

19. Provide a complete log (description) of each boring made during the exploratory program, and include all other pertinent data so obtained.

20. Include the following information regarding the bedrock, if encountered during the boring program:

    a. Depth(s) to bedrock.
    b. Lithology (physical character) and hydrologic characteristics of the bedrock formation.
    c. Name and age of the formations encountered during the boring operation and (or) which crop out on or adjacent to the site.

C. MATERIALS CLASSIFICATION AND ANALYSIS

21. Provide the following information for samples taken during the boring operation:

    a. textural classification (U.S.D.A. system)
    b. particle size distribution curves for representative samples
    c. coefficient of permeability - based on field and (or) laboratory determinations
    d. ion-exchange capacity and ability to adsorb and "fix" heavy metal ions

D. HYDROLOGY

22. Provide the following information regarding the hydrologic flow system in the area of the site:

    a. Depth to water in boreholes at time of boring completion and periodic measurements until the water level has stabilized.

b. Rate(s) and direction(s) of ground-water movement.
c. A narrative description (with diagrams) of the design and installation procedures for all piezometers installed at the site. This shall include both water-level measuring piezometers and those installed for permanent use as water-quality monitoring points.
d. An analysis of the background ground-water quality, as per those constituents listed in the Instructions. Attach a copy of the laboratory report.
e. An outline of the procedures, devices, and personnel to be employed for the collection of periodic ground-water samples from the monitoring point(s) installed at the site.

PART IV - CONSTRUCTION PLANS AND SPECIFICATIONS

A. SITE DEVELOPMENT PLAN

23. Provide a detailed topographic map of the existing site (Scale 1" = 200' or larger) showing 5-foot contour intervals on sites (or portions thereof) where the relief exceeds 20 feet, and 2-foot contour intervals on sites (or portions thereof) having less than 20 feet of relief. This map should show all building ponds, streams, wooded areas, bedrock outcrops, underground and overhead utilities, roads, fences, culverts, drainage ditches, drain tiles, easements, streets, any other item of significance, including legal boundaries.

    Show the location and elevation of borings as described in Part III - 19, 20.

24. Provide a separate map, at the same scale as that above, of the developed site showing the following:

    a. All changes in topography dictated by design and operational factors.
    b. All surface features (as specified in IV - A - 23) both unaltered and modified, and installed as part of the facility. This shall include all new construction with location plans for berms, dikes, dams, earth barriers, surface drainage ditches, drainage devices (culverts, tiles), fencing, access roads, entrance(s), utilities, buildings, sanitary facilities, monitoring well(s), streams, ponds, mines, and any other special construction as may be required to comply with the provisions of the Rules and Regulations.

25. Provide a topographic map of the closed and covered site showing final contours, with an interval of 5 feet if relief is greater than 20 feet, and intervals of 2 feet if relief is less than 20 feet.

26. Provide cross sections or profiles (Scale 1" = 200' or larger) of the developed site to clearly indicate: (Minimum of three cross sections recommended)

    a. Proposed fill areas
    b. Sequence of placement and total compacted thickness of each lift
    c. Thickness of cover material for each lift
    d. Slope and width of working face for each lift
    e. Slope of completed fill with final cover in place
    f. Subsurface strata to a minimum depth of thirty feet below the base of the fill material
    g. Earth barriers, berms, dikes and other barriers, including essential dimensions of each

27. Provide plan views (Scale 1" = 200') and cross sections of the leachate collection and treatment system, if utilized, including the following information:

    a. Type, location and construction of subsurface collection system, and all attendant devices.
    b. Location, dimensions, volume, and surface elevation of treatment lagoon(s), if used.
    c. Detailed written narrative of the method and processes of the treatment system, and program for monitoring the performance and effectiveness of the treatment system.
    d. Discharge point(s) of effluent.

B. SCHEDULE OF CONSTRUCTION

28. Attach a typewritten narrative supplemented by indications on the plans of the sequence of areas to be filled. Estimate the date of beginning and ending of each phase of construction and operation.

C. CONSTRUCTION REQUIREMENTS

29. Attach a typewritten narrative supplemented by indications on the plans of provisions to be made for:

    a. Prevention of surface-water pollution.

    b. Control of gas migration.

    c. Elimination of flood hazard, if any.

    d. Employee facilities.

    e. Access to the site.

    f. Measuring quantity of solid waste delivered to the site.

PART V - OPERATING PLAN

A. SOURCE AND VOLUME

30. Indicate the estimated quantity of each of the following sources and types of solid waste the facility will handle during each day of operation; each week of operation; each year of operation. Specify any additional information regarding refuse source and quantity.

SOURCE	TYPE	DAILY QUAN.	WEEKLY QUAN.	ANNUAL QUAN.
a. Residential		78.7 C.Y.	472 C.Y.	24,544 C.Y.
b. Commercial	Paper	11.7 C.Y.	70 C.Y.	3,640 C.Y.
c. Industrial	Solids	17.1 C.Y.	120 C.Y.	6,240 C.Y.
d. Agricultural				
e. Other (Describe)	Liquid	416.7 Gal.	2,500 Gal.	130,000 Gal

31. At the above projected rate of use, what is the expected useful life of the facility? 21 years

32. Will water treatment or wastewater treatment sludge be accepted at the facility? ( )Yes (X)No. If the answer is yes, all pertinent information requested in Part VI of the Application form must be provided.

33. If "hazardous wastes" (other than waste water sludges) will be accepted at the facility, list these wastes, give quantity to be accepted, provide a complete analysis of each, and attach a detailed description of the special procedures to be used for their disposal at the facility.

B. DESCRIPTION OF OPERATING PROCEDURES

34. Attach a typewritten plan of operation to accompany this application. This plan should include the following subjects:

a. Method of landfill (trenching, area fill)
b. Time schedule for filling and daily covering

C. OPERATING REQUIREMENTS

35. Attach a typewritten description of provisions for:

a. Personnel for supervision and operation
b. Traffic control
c. Designation of unloading area
d. Cell size and construction
e. Provisions for blowing litter control
f. Rodent control
g. Fly control
h. Bird control
i. Dust control
j. Odor control
k. Management of surface water
l. Erosion control
m. Final cover and final slopes
n. Monitoring program for gas
o. Reuse and recycling operations
p. Monitoring program for ground water (See Part III - D - 22)

36. Provide a list of equipment to be used for the landfill operation:

ITEM(S)	MODEL NUMBER	NO. OF UNITS IN OPERATION	DESCRIPTION
Straight Blade	D-6	1	Caterpillar
1 1/3 Cubic Yard Bucket	941	1	Caterpillar

PART VI - ON - SITE SLUDGE DISPOSAL

The information requested in this Part of the Application form must be provided only if water treatment or wastewater treatment sludge is proposed to be accepted for disposal at the site.

37. Indicate the type of sludge to be accepted at the facility for ultimate disposal:

N/A

( ) Water treatment
( ) Wastewater treatment

( ) municipal	( ) filter cake	( ) raw
( ) industrial	( ) sludge cake	( ) digested
( ) combined	( ) heat-dried	

38. Provide a brief narrative of the wastewater or water treatment processes and operations utilized at the treatment facility generating the sludge in question.

N/A

39. Provide a brief narrative of the sludge de-watering and (or) sludge drying operations utilized at the treatment plant. What is the expected solids content (by weight) of the processed sludge? N/A

40. If industrial or combined wastewater sludges are proposed to be deposited at the site, provide a comprehensive chemical analysis of same. Attach a copy of the laboratory report as part of the Application. Provide a brief description of the manufacturing process(es) which results in the generation of the industrial wastewater including chemical reagents used during such processing.

N/A

41. Provide a reasonable estimate of the projected quantity of processed sludge to be deposited at the site on a unit time basis. Specify any additional information regarding sludge generation.

SOURCE	WEEKLY QUANTITY	MONTHLY QUANTITY	ANNUAL QUANTITY	OTHER INTERVAL
A. Municipal	N/A			INTERV
B. Industrial	N/A			
C. Combined	N/A			

42. Provide a brief statement describing the method of sludge conveyance to the refuse disposal site from the treatment facility. Include an attached typewritten list of equipment and personnel to be used for sludge handling and transport.

43. Outline in a concise statement the operational procedures to be used on-site to properly dispose of the sludge at the operational protion of the facility. Describe the provisions to be-made for odor control if nuisance conditions arise from the disposal of partially digested sludges.

44. Attach a typewritten description supplemented by indications on the plans of provisions for final grading and, if applicable, revegetation of the completed landfill areas. State what arrangements will be made for the repair of eroded, cracked and uneven areas, and any other maintenance of the site until its pollution potential is adjudged exhausted.

45. By signature affixed to this Application for Permit the Applicant affirms his intent to record description and plan of the completed site with the county official responsible for maintaining titles and records of the land, in accordance with the Rules and Regulations of this Agency, if granted a Development and/or Operating Permit.

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

Signature of Applicant: Jacob Johnson — 4-26-74 (Date)

Attest: Marguerite Capps — 4-26-74 (Date)

Signature of Engineer: Harvard F. Ebers — 4-26-74 (Date)

Illinois Reg. No.: 27085

Attest: Glenna Pickett — 4-26-74 (Date)

HARVARD F. EBERS 27085 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS (Seal)

Signature of other person, technical and non-technical, who has supplied data contained in the submittal.

Greg Boettcher (Signature) — 4-26-74 (Date)

PROJECT ENGINEER
Reg. No., Position, Title, Etc.

(Seal)

Signature — Date

Reg. No., Position, Title, etc.

(Seal)